

ABSTRACT

A method and an apparatus for multitone modulation to transmit at least two packets of data, each comprising a plurality of symbols, to provide inter-packet interleaving. The method utilizes a plurality of tones of different frequencies to transmit the data symbols of the two packets. Transmission of successive data symbols of a first data packet and of a second data packet are delayed over time, such that during at least one symbol period the tones are transmitting at least one first packet data symbol and at least one second packet data symbol. A further embodiment comprises a method for multitone modulation to transmit at least two packets of data which utilizes a plurality of modulation codes to transmit the data symbols of the two packets. The modulation codes comprise a set of orthogonal modulation codes, or the data can be modulated in accordance with CDMA modulation.